

Sebacic acid, 2-acetylphenyl isoheptyl ester

Inchi:	InChI=1S/C24H36O5/c1-19(2)13-12-18-28-23(26)16-8-6-4-5-7-9-17-24(27)29-22-15-11-10
InchiKey:	DMWGFPIKOKSOGV-UHFFFAOYSA-N
Formula:	C24H36O5
SMILES:	CC(=O)c1ccccc1OC(=O)CCCCCCCC(=O)OCCCC(C)C
Mol. weight [g/mol]:	404.54

Physical Properties

Property code	Value	Unit	Source
gf	-345.22	kJ/mol	Joback Method
hf	-921.09	kJ/mol	Joback Method
hfus	55.22	kJ/mol	Joback Method
hvap	96.63	kJ/mol	Joback Method
log10ws	-6.93		Crippen Method
logp	5.895		Crippen Method
mcvol	341.710	ml/mol	McGowan Method
pc	1079.93	kPa	Joback Method
rinpol	2997.00		NIST Webbook
tb	986.19	K	Joback Method
tc	1207.44	K	Joback Method
tf	578.43	K	Joback Method
vc	1.319	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1134.74	J/molxK	986.19	Joback Method
cpg	1149.75	J/molxK	1023.07	Joback Method
cpg	1163.27	J/molxK	1059.94	Joback Method
cpg	1175.34	J/molxK	1096.82	Joback Method
cpg	1186.01	J/molxK	1133.69	Joback Method
cpg	1195.30	J/molxK	1170.57	Joback Method
cpg	1203.27	J/molxK	1207.44	Joback Method
dvisc	0.0003398	Paxs	578.43	Joback Method
dvisc	0.0001775	Paxs	646.39	Joback Method

dvisc	0.0001049	Paxs	714.35	Joback Method
dvisc	0.0000679	Paxs	782.31	Joback Method
dvisc	0.0000472	Paxs	850.27	Joback Method
dvisc	0.0000346	Paxs	918.23	Joback Method
dvisc	0.0000264	Paxs	986.19	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354973&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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